

WHAT IS CLAIMED IS:

1. A display device comprising:

a plurality of self-luminous elements arrayed to form a display screen; and

5 a driving circuit which causes drive currents to flow in said self-luminous elements according to pixel signals, said driving circuit being configured to restrict the drive currents flowing in said self-luminous elements upon increase in the total sum of
10 the drive currents.

2. The display device according to claim 1, wherein said driving circuit comprises:

a D/A conversion circuit which digital-to-analog converts the pixel signals;

15 a gradation reference circuit which generates a predetermined number of gradation reference signals which are referred to by said D/A conversion circuit; and

a correction circuit which detects the total sum
20 of the drive currents flowing in said self-luminous elements and controls said gradation reference circuit to produce a predetermined number of gradation reference signals whose levels are uniformly corrected according to the total sum.

25 3. The display device according to claim 2, wherein said gradation reference circuit includes a voltage division circuit which comprises a plurality of

resistor elements connected to output a predetermined number of gradation reference voltages whose voltage ratios to a reference power supply voltage differ from each other, as the predetermined number of gradation reference signals, respectively.

4. The display device according to claim 2, wherein said gradation reference circuit includes a current mirror circuit which comprises a plurality of active current mirror elements connected to output a predetermined number of gradation reference currents whose current ratios to a reference power supply current differ from each other, as the predetermined number of gradation reference signals, respectively.

5. The display device according to claim 1, wherein said self-luminous elements are formed of organic electro-luminescence elements.